

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P284622

Luminaire Tested: **4SNLED-LD5-41SL-SLW-UNV-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P284622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P#)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SNLED-LD5-41SL-SLW-UNV-L930-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
SQUARE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3271.0 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.56 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

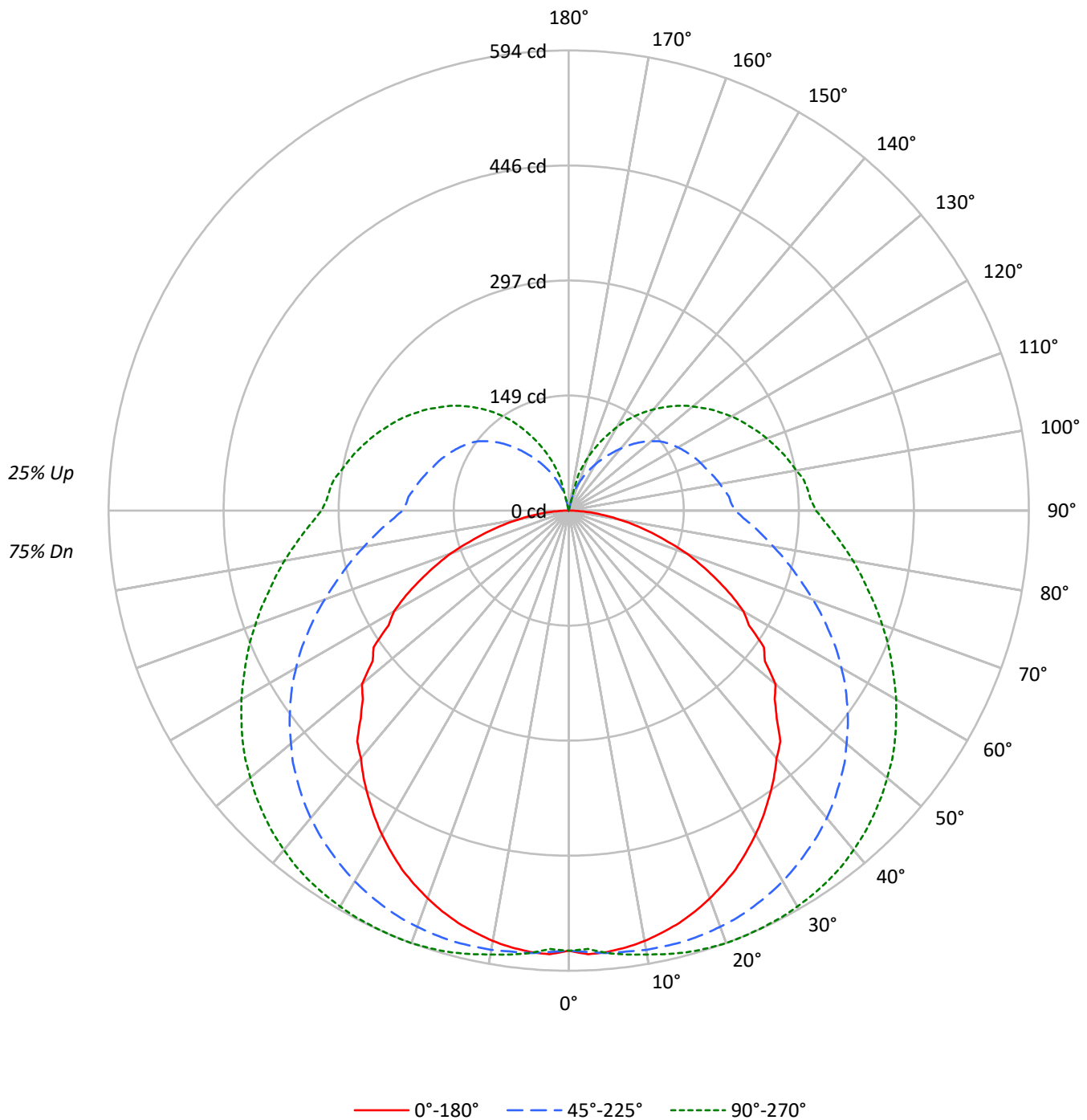
Input Watts (W): 38
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79			75
1	100	94	89	84	95	89	84	80	80	76	73	72	69	66	64	62	60			56
2	90	80	72	66	85	76	69	63	68	63	58	61	57	53	55	51	48			44
3	81	69	60	53	76	66	58	51	59	53	47	53	48	43	47	43	39			36
4	74	61	51	44	69	58	49	43	52	45	39	47	41	36	42	37	33			30
5	67	54	44	37	63	51	43	36	46	39	33	42	35	31	37	32	28			25
6	62	48	39	32	58	46	37	31	41	34	29	37	31	27	34	28	24			22
7	57	43	34	28	54	41	33	27	37	30	25	34	28	23	30	25	21			19
8	53	39	31	25	50	37	29	24	34	27	22	31	25	21	28	23	19			17
9	49	36	27	22	47	34	26	21	31	24	20	28	23	18	26	21	17			15
10	46	33	25	20	44	31	24	19	29	22	18	26	21	16	24	19	15			13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4591	4591	4591
5°	4626	4536	4503
10°	4604	4497	4478
15°	4572	4473	4487
20°	4529	4451	4496
25°	4486	4436	4503
30°	4424	4422	4527
35°	4355	4406	4558
40°	4290	4403	4587
45°	4209	4393	4624
50°	4222	4383	4661
55°	4146	4384	4716
60°	3994	4386	4780
65°	3772	4392	4869
70°	3529	4425	5006
75°	3098	4526	5208
80°	2617	4745	5543
85°	1940	5187	6034



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	1.7
10°-20°	161.8	4.9
20°-30°	257.2	7.9
30°-40°	330.1	10.1
40°-50°	372.7	11.4
50°-60°	380.3	11.6
60°-70°	352.4	10.8
70°-80°	298.3	9.1
80°-90°	238.1	7.3
90°-100°	202.2	6.2
100°-110°	180.1	5.5
110°-120°	153.4	4.7
120°-130°	121.9	3.7
130°-140°	86.5	2.6
140°-150°	51.6	1.6
150°-160°	24.1	0.7
160°-170°	5.7	0.2
170°-180°	0.0	0.0
0°-30°	473.6	14.5
0°-40°	803.7	24.6
0°-60°	1556.7	47.6
0°-90°	2445.5	74.8
90°-120°	535.8	16.4
90°-150°	795.7	24.3
90°-180°	826.0	25.3
0°-180°	3271.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	568	568	568	568	568	
5°	572	567	573	573	573	54
15°	551	556	576	586	590	155
25°	510	527	564	584	593	235
35°	451	484	537	570	584	282
45°	380	431	495	538	556	295
55°	307	359	439	493	514	270
65°	210	281	371	435	460	209
75°	111	196	300	374	400	118
85°	28	126	240	317	344	31
90°	2	103	214	292	319	2
95°	0	97	208	284	310	0
105°	0	89	189	260	286	0
115°	0	83	172	234	257	0
125°	0	72	153	207	227	0
135°	0	53	123	174	191	0
145°	0	35	86	131	149	0
155°	1	22	53	80	99	0
165°	1	12	24	33	47	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	568.1	568.1	568.1	568.1	568.1
2.5°	573.3	567.3	570.4	569.6	566.5
5°	571.8	567.3	573.3	573.3	573.3
7.5°	568.7	565.6	574.1	577.2	578.1
10°	564.2	564.2	575.8	580.3	581.8
12.5°	557.9	560.2	575.8	582.6	586.4
15°	551.1	555.7	575.8	586.4	590.3
17.5°	542.6	550.3	574.1	587.2	592.6
20°	532.6	544.3	571.8	587.2	594.2
22.5°	521.9	536.6	568.7	585.7	594.2
25°	510.4	527.3	564.2	584.1	593.4
27.5°	496.6	518.1	558.8	581.8	592.6
30°	482.7	507.3	552.6	578.7	590.3
32.5°	467.3	495.7	544.9	574.1	587.2
35°	451.1	484.3	536.6	569.6	583.5
37.5°	435.0	470.4	528.1	563.3	578.7
40°	417.3	456.5	518.1	555.7	571.8
42.5°	404.3	442.0	507.3	548.0	565.0
45°	379.8	431.2	494.9	538.0	556.5
47.5°	360.5	410.5	482.7	528.1	547.2
50°	348.3	393.5	468.1	516.5	536.6
52.5°	319.0	382.1	454.2	505.1	526.4
55°	307.4	359.0	438.9	492.6	514.2
57.5°	275.9	342.9	423.5	478.9	501.1
60°	260.5	320.5	406.5	465.0	488.0
62.5°	236.7	301.4	389.7	449.7	473.5
65°	210.5	280.6	371.3	435.0	459.6
67.5°	186.1	259.9	353.6	419.6	445.7
70°	162.2	238.3	335.2	404.3	430.4
72.5°	134.4	216.7	317.3	389.7	415.9
75°	110.8	196.0	300.5	374.4	400.5
77.5°	87.5	176.1	284.4	360.5	386.6
80°	66.2	156.8	268.2	346.0	372.7
82.5°	46.0	140.6	253.7	332.1	358.2
85°	28.4	126.1	239.8	317.3	344.3
87.5°	13.1	113.0	225.9	303.7	331.2
90°	1.5	103.1	214.5	292.0	319.0
92.5°	0.8	100.0	209.9	286.6	312.8
95°	0.0	96.9	207.6	283.5	309.7
97.5°	0.0	93.8	202.2	279.0	305.9
100°	0.0	92.3	198.3	272.1	298.3
102.5°	0.0	90.0	193.7	265.9	292.0
105°	0.0	89.2	189.2	260.5	286.0
107.5°	0.0	87.5	184.4	253.7	279.0
110°	0.0	86.1	180.7	247.4	272.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	84.6	176.7	241.4	265.1
115°	0.0	83.0	172.2	234.4	257.4
117.5°	0.0	80.7	167.6	227.5	250.6
120°	0.0	77.6	163.0	221.3	242.9
122.5°	0.0	74.5	158.3	213.6	234.4
125°	0.0	71.6	152.9	206.8	226.7
127.5°	0.0	66.8	146.9	199.1	217.6
130°	0.0	62.2	139.2	191.4	209.1
132.5°	0.8	57.7	131.5	182.9	200.6
135°	0.0	53.1	123.0	174.4	190.6
137.5°	0.0	49.2	113.7	165.3	180.7
140°	0.0	44.6	104.5	154.5	170.7
142.5°	0.0	39.2	95.4	142.9	159.9
145°	0.0	34.6	86.1	130.7	149.1
147.5°	0.8	30.7	77.6	117.6	137.5
150°	0.8	27.6	69.3	104.5	124.4
152.5°	0.8	24.7	60.8	92.3	111.4
155°	0.8	21.6	53.1	79.9	99.1
157.5°	0.8	18.5	44.6	67.6	86.1
160°	0.8	16.2	36.9	56.8	73.8
162.5°	0.8	13.9	30.1	44.6	60.8
165°	0.8	11.6	23.9	33.0	46.9
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)